

BLOW-MOLDED TABLE

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a blow-molded table, and more
5 particularly to a blow-molded table that is expanded easily and rapidly and is
folded easily when not in use, thereby enhancing the versatility of the
blow-molded table.

2. Description of the Related Art

A conventional table is available for providing a support effect,
10 thereby facilitating the user using the table. However, the conventional table
has a fixed structure and cannot be folded when not in use, thereby increasing
space of storage, and thereby causing inconvenience in storage, package and
transportation.

SUMMARY OF THE INVENTION

15 The primary objective of the present invention is to provide a
blow-molded table that is supported rigidly and stably when being expanded
and is folded when not in use, thereby enhancing the versatility of the
blow-molded table.

Another objective of the present invention is to provide a
20 blow-molded table, wherein the two support units are expanded outward
rapidly to support the table board rigidly and stably, thereby facilitating the
user expanding the blow-molded table.

A further objective of the present invention is to provide a blow-molded table, wherein the support units are folded in the receiving space of the table board to fold the blow-molded table when not in use, thereby saving space of storage, package and transportation.

5 In accordance with the present invention, there is provided a blow-molded table, comprising a table board, and two opposite support units each foldably mounted on a bottom of the table board, wherein:

the bottom of the table board is formed with a receiving space; and

each of the two support units is mounted in the receiving space of the

10 table board and includes a support stand pivotally mounted on either one of two ends of the table board, and a support member pivotally mounted on a mediate of the table board and pivotally connected with the support stand.

Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate
15 reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of a blow-molded table in accordance with the preferred embodiment of the present invention;

Fig. 2 is a bottom perspective view of the blow-molded table as
20 shown in Fig. 1;

Fig. 3 is a side plan view of the blow-molded table as shown in Fig.
1;

Fig. 4 is a bottom plan folded view of the blow-molded table as shown in Fig. 1;

Fig. 5 is a plan cross-sectional view of the blow-molded table taken along line 5-5 as shown in Fig. 4;

5 Fig. 6 is a partially enlarged view of the blow-molded table as shown in Fig. 5;

Fig. 7 is a partially enlarged view of the blow-molded table as shown in Fig. 4;

Fig. 8 is a perspective view of a blow-molded table in accordance
10 with another embodiment of the present invention;

Fig. 9 is a bottom perspective view of the blow-molded table as shown in Fig. 8;

Fig. 10 is a bottom plan folded view of the blow-molded table as shown in Fig. 8;

15 Fig. 11 is a bottom perspective view of a blow-molded table in accordance with another embodiment of the present invention;

Fig. 12 is a side plan view of the blow-molded table as shown in Fig. 11;

Fig. 13 is a plan folded view of the blow-molded table as shown in
20 Fig. 11;

Fig. 14 is a bottom perspective view of a blow-molded table in accordance with another embodiment of the present invention;

Fig. 15 is a side plan view of the blow-molded table as shown in Fig. 14; and

Fig. 16 is a plan folded view of the blow-molded table as shown in Fig. 14.

DETAILED DESCRIPTION OF THE INVENTION

Referring to the drawings and initially to Figs. 1-7, a blow-molded table 5 in accordance with the preferred embodiment of the present invention comprises a table board 1, and two opposite support units 4 each foldably mounted on a bottom of the table board 1.

The bottom of the table board 1 is formed with a receiving space 11. The receiving space 11 of the table board 1 has two opposite sides each provided with a support tube 12 which is secured on the table board 1 by a plurality of screws 13 as shown in Figs. 5-7.

Each of the two support units 4 is mounted in the receiving space 11 of the table board 1 and includes a support stand 2 pivotally mounted on one of two ends of the table board 1, and a support member 3 pivotally mounted on a mediate of the table board 1 and pivotally connected with the support stand 2.

The support stand 2 of each of the two support units 4 is provided with an auxiliary reinforcement member 21 having a mediate portion formed with a substantially C-shaped holder 22. The support stands 2 of the two support units 4 are in alignment with each other as shown in Fig. 3.

The support member 3 of each of the support units 4 includes a substantially T-shaped support bar 30 having a first end pivotally mounted on the mediate portion of the table board 1, and a substantially V-shaped extension bar 31 having a first end pivotally mounted on a second end of the support bar 30 and a second end pivotally mounted on the support stand 2. The support bars 30 of the two support units 4 are juxtaposed to each other as shown in Fig. 2.

The receiving space 11 of the table board 1 is formed with a plurality of receiving recesses 14 for receiving the support stand 2 and the support member 3 of each of the support units 4 when being folded.

In practice, as shown in Figs. 1-3, the support stand 2 of each of the support units 4 is pulled outward relative to the table board 1 to drive the support member 3 to extend outward, thereby fully stretching the support member 3, so that the table board 1 is supported by the two support units 4 rigidly and stably, thereby fully expanding the blow-molded table 5 as shown in Fig. 1.

As shown in Figs. 4-7, when the user wishes to fold the blow-molded table 5, the support stand 2 of each of the support units 4 is pressed toward the table board 1 to drive the extension bar 31 and the support bar 30 of the support member 3 to move and pivot inward, thereby moving and folding the support member 3 and the support stand 2 into the receiving recesses 14 of the table board 1, so that the support units 4 are folded in the receiving space 11 of the

table board 1, thereby folding the blow-molded table 5 as shown in Fig. 4. When the support member 3 and the support stand 2 are folded, the holder 22 of the support stand 2 is clamped on the support bar 30 of the support member 3, so that the support member 3 is combined with the support stand 2.

5 Accordingly, the two support units 4 are expanded outward rapidly to support the table board 1 rigidly and stably, thereby facilitating the user expanding the blow-molded table 5. In addition, the support units 4 are folded in the receiving space 11 of the table board 1 to fold the blow-molded table 5 when not in use, thereby saving space of storage, package and transportation.

10 Referring to Figs. 8-10, a blow-molded table 6 in accordance with another embodiment of the present invention is shown, wherein the table board 61 has a length greater than that of the table board 1. The bottom of the table board 61 is formed with a receiving space 62. The receiving space 62 of the table board 61 has two opposite sides each provided with a support tube 63.
15 which is secured on the table board 61 by a plurality of screws 64. In such a manner, the support bars 30 of the two support units 3 are spaced from each other as shown in Fig. 9.

 Referring to Figs. 11-13, a blow-molded table 7 in accordance with another embodiment of the present invention is shown, wherein the table board
20 71 has a length smaller than that of the table board 1. The bottom of the table board 71 is formed with a receiving space 72. The receiving space 72 of the table board 71 has two opposite sides each provided with a support tube 73

which is secured on the table board 71 by a plurality of screws 74. The receiving space 72 of the table board 71 is formed with a plurality of receiving recesses 75 for receiving the support stand 2' and the support member 3' of each of the support units 4' when being folded. In such a manner, the support bars 30' of the two support units 3' are spaced from each other as shown in Fig. 11, and the support stands 2' of the two support units 4' are arranged in a staggered manner as shown in Figs. 12 and 13.

Referring to Figs. 14-16, a blow-molded table 8 in accordance with another embodiment of the present invention is shown, wherein the table board 81 has a length smaller than that of the table board 1. The bottom of the table board 81 is formed with a receiving space 82. The receiving space 82 of the table board 81 has two opposite sides each provided with a support tube 83 which is secured on the table board 81 by a plurality of screws 84. The receiving space 82 of the table board 81 is formed with a plurality of receiving recesses 85 for receiving the support stand 2'' and the support member 3'' of each of the support units 4'' when being folded. In such a manner, the support bars 30'' of the two support units 3'' are spaced from each other as shown in Fig. 14, and the support stands 2'' of the two support units 4'' are arranged in a staggered manner as shown in Figs. 15 and 16. In addition, the support stand 2'' of each of the support units 4'' has a narrower upper portion and a wider lower portion as shown in Fig. 15.

Although the invention has been explained in relation to its preferred embodiment(s) as mentioned above, it is to be understood that many other possible modifications and variations can be made without departing from the scope of the present invention. It is, therefore, contemplated that the appended
5 claim or claims will cover such modifications and variations that fall within the true scope of the invention.